



UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,586	10/31/2001	David J.C. Johnson	10013442-1	1948
7590 03/26/2004 HEWLETT-PACKARD COMPANY			EXAMINER ELMORE, REBA I	
Fort Collins, CO 80527-2400			. 2187	3
			DATE MAILED: 03/26/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/001,586	JOHNSON ET AL.
Office Action Summary	Examiner	Art Unit
	Reba I. Elmore	2187
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 31 Oc 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Expression in the practice of the condition of the practice of t	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
 4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 		
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the lidrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)	n.□	(770.440)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

1. Claims 1-4 are presented for examination.

Specification

2. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Dean et al.

Dean teaches the invention (claim 1) as claimed including a method of evicting an entry in a cache memory comprising:

setting a bit to a first logical state when the entry is accessed as setting the age bits to NEW (e.g., see paragraph 0038);

setting the bit to a second logical state as setting the age bits to a minimum value (e.g., see paragraph 0038); and,

evicting the entry when the bit is at the second logical state after at least a predetermined time after being set to the second logical state as using the aging of the bits to determined the next line to evict (e.g., see paragraph 0038) with the predetermined time relating to a time stamp or age value (e.g., see paragraphs 0024-0025).

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Dean teaches the invention (claim 2) as claimed including a method of evicting an entry in a cache memory comprising:

setting a bit to a first logical state when the entry is written as setting the age bits to NEW (e.g., see paragraph 0038);

setting the bit to a second logical state as setting the age bits to a minimum value (e.g., see paragraph 0038); and,

evicting the entry when the bit is at the second logical state after at least a predetermined time after being set to the second logical state as using the aging of the bits to determined the next line to evict (e.g., see paragraph 0038) with the predetermined time relating to a time stamp or age value (e.g., see paragraphs 0024-0025).

Dean teaches the invention (claim 3) as claimed a method of evicting at least one entry in a set of entries in a cache memory comprising:

setting a bit to a first logical state when an entry corresponding to an index which is part of the cache address (e.g., see Figure 1) is accessed as setting the age bits to NEW (e.g., see paragraph 0038);

setting the bit to a second logical state as setting the age bits to a minimum value (e.g., see paragraph 0038); and,

evicting at least one entry corresponding to the index when the bit is at the second logical state after at least a predetermined time after being set to the second logical state as using the aging of the bits to determined the next line to evict (e.g., see paragraph 0038) with the predetermined time relating to a time stamp or age value (e.g., see paragraphs 0024-0025).

Dean teaches the invention (claim 4) as claimed including a method of evicting at least one entry in a set of entries in a cache memory comprising:

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setting a bit to a first logical state when an entry corresponding to an index which is part of the cache address (e.g., see Figure 1) is modified as setting the age bits to NEW (e.g., see paragraph 0038);

setting the bit to a second logical state as setting the age bits to a minimum value (e.g., see paragraph 0038); and,

evicting at least one entry corresponding to the index when the bit is at the second logical state after at least a predetermined time after being set to the second logical state as using the aging of the bits to determined the next line to evict (e.g., see paragraph 0038) with the predetermined time relating to a time stamp or age value (e.g., see paragraphs 0024-0025).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reba I. Elmore, whose telephone number is (703) 305-9706. The examiner can normally be reached on M-TH from 7:30am to 6:00pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor for AU 2187, Donald Sparks, can be reached for general questions concerning this application at (703) 308-1756. Additionally, the official fax phone number for the art unit is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center receptionist whose telephone number is (703) 305-3800/4700.

REBA I. ELMORE PRIMARY EXAMINER

Rba +

March 21, 2004